

APPENDIX

9 Bit Value	1/2 Rate			1/4 Rate			Normal Stream	
	# Steps	# Segments	Bitrate	# Steps	# Segments	Bitrate	# Steps	Bitrate
0	0	0	0	0	0	0	0	19.39265846
1	1	2	0.054221	0	0	0	2	19.26834655
2	2	4	0.108442	0	0	0	4	19.14403463
3	3	6	0.162663	0	0	0	6	19.01972272
4	4	8	0.216885	0	0	0	8	18.89541081
5	5	12	0.325327	0	0	0	12	18.64678698
6	6	16	0.433769	0	0	0	16	18.39816315
7	7	20	0.542212	0	0	0	20	18.14953933
8	0	0	0	1	4	0.054221	4	19.14403463
9	1	2	0.054221	1	4	0.054221	6	19.01972272
10	2	4	0.108442	1	4	0.054221	8	18.89541081
11	3	6	0.162663	1	4	0.054221	10	18.77109889
12	4	8	0.216885	1	4	0.054221	12	18.64678698
13	5	12	0.325327	1	4	0.054221	16	18.39816315
14	6	16	0.433769	1	4	0.054221	20	18.14953933
15	7	20	0.542212	1	4	0.054221	24	17.9009155
16	0	0	0	2	8	0.108442	8	18.89541081
17	1	2	0.054221	2	8	0.108442	10	18.77109889
18	2	4	0.108442	2	8	0.108442	12	18.64678698
19	3	6	0.162663	2	8	0.108442	14	18.52247507
20	4	8	0.216885	2	8	0.108442	16	18.39816315
21	5	12	0.325327	2	8	0.108442	20	18.14953933
22	6	16	0.433769	2	8	0.108442	24	17.9009155
23	7	20	0.542212	2	8	0.108442	28	17.65229167
24	0	0	0	3	12	0.162663	12	18.64678698
25	1	2	0.054221	3	12	0.162663	14	18.52247507
26	2	4	0.108442	3	12	0.162663	16	18.39816315
27	3	6	0.162663	3	12	0.162663	18	18.27385124
28	4	8	0.216885	3	12	0.162663	20	18.14953933
29	5	12	0.325327	3	12	0.162663	24	17.9009155
30	6	16	0.433769	3	12	0.162663	28	17.65229167
31	7	20	0.542212	3	12	0.162663	32	17.40366785
32	0	0	0	4	16	0.216885	16	18.39816315
33	1	2	0.054221	4	16	0.216885	18	18.27385124
34	2	4	0.108442	4	16	0.216885	20	18.14953933
35	3	6	0.162663	4	16	0.216885	22	18.02522741
36	4	8	0.216885	4	16	0.216885	24	17.9009155
37	5	12	0.325327	4	16	0.216885	28	17.65229167
38	6	16	0.433769	4	16	0.216885	32	17.40366785
39	7	20	0.542212	4	16	0.216885	36	17.15504402
40	0	0	0	5	20	0.271106	20	18.14953933
41	1	2	0.054221	5	20	0.271106	22	18.02522741
42	2	4	0.108442	5	20	0.271106	24	17.9009155
43	3	6	0.162663	5	20	0.271106	26	17.77660359
44	4	8	0.216885	5	20	0.271106	28	17.65229167
45	5	12	0.325327	5	20	0.271106	32	17.40366785
46	6	16	0.433769	5	20	0.271106	36	17.15504402
47	7	20	0.542212	5	20	0.271106	40	16.9064202
48	0	0	0	6	24	0.325327	24	17.9009155
49	1	2	0.054221	6	24	0.325327	26	17.77660359
50	2	4	0.108442	6	24	0.325327	28	17.65229167
51	3	6	0.162663	6	24	0.325327	30	17.52797976
52	4	8	0.216885	6	24	0.325327	32	17.40366785
53	5	12	0.325327	6	24	0.325327	36	17.15504402

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54	6	16	0.433769	6	24	0.325327	40	16.9064202
55	7	20	0.542212	6	24	0.325327	44	16.65779637
56	0	0	0	7	28	0.379548	28	17.65229167
57	1	2	0.054221	7	28	0.379548	30	17.52797976
58	2	4	0.108442	7	28	0.379548	32	17.40366785
59	3	6	0.162663	7	28	0.379548	34	17.27935594
60	4	8	0.216885	7	28	0.379548	36	17.15504402
61	5	12	0.325327	7	28	0.379548	40	16.9064202
62	6	16	0.433769	7	28	0.379548	44	16.65779637
63	7	20	0.542212	7	28	0.379548	48	16.40917254
64	0	0	0	8	32	0.433769	32	17.40366785
65	1	2	0.054221	8	32	0.433769	34	17.27935594
66	2	4	0.108442	8	32	0.433769	36	17.15504402
67	3	6	0.162663	8	32	0.433769	38	17.03073211
68	4	8	0.216885	8	32	0.433769	40	16.9064202
69	5	12	0.325327	8	32	0.433769	44	16.65779637
70	6	16	0.433769	8	32	0.433769	48	16.40917254
71	7	20	0.542212	8	32	0.433769	52	16.16054872
72	0	0	0	9	36	0.48799	36	17.15504402
73	1	2	0.054221	9	36	0.48799	38	17.03073211
74	2	4	0.108442	9	36	0.48799	40	16.9064202
75	3	6	0.162663	9	36	0.48799	42	16.78210828
76	4	8	0.216885	9	36	0.48799	44	16.65779637
77	5	12	0.325327	9	36	0.48799	48	16.40917254
78	6	16	0.433769	9	36	0.48799	52	16.16054872
79	7	20	0.542212	9	36	0.48799	56	15.91192489
80	0	0	0	10	40	0.542212	40	16.9064202
81	1	2	0.054221	10	40	0.542212	42	16.78210828
82	2	4	0.108442	10	40	0.542212	44	16.65779637
83	3	6	0.162663	10	40	0.542212	46	16.53348446
84	4	8	0.216885	10	40	0.542212	48	16.40917254
85	5	12	0.325327	10	40	0.542212	52	16.16054872
86	6	16	0.433769	10	40	0.542212	56	15.91192489
87	7	20	0.542212	10	40	0.542212	60	15.66330106
88	0	0	0	11	44	0.596433	44	16.65779637
89	1	2	0.054221	11	44	0.596433	46	16.53348446
90	2	4	0.108442	11	44	0.596433	48	16.40917254
91	3	6	0.162663	11	44	0.596433	50	16.28486063
92	4	8	0.216885	11	44	0.596433	52	16.16054872
93	5	12	0.325327	11	44	0.596433	56	15.91192489
94	6	16	0.433769	11	44	0.596433	60	15.66330106
95	7	20	0.542212	11	44	0.596433	64	15.41467724
96	0	0	0	12	52	0.704875	52	16.16054872
97	1	2	0.054221	12	52	0.704875	54	16.0362368
98	2	4	0.108442	12	52	0.704875	56	15.91192489
99	3	6	0.162663	12	52	0.704875	58	15.78761298
100	4	8	0.216885	12	52	0.704875	60	15.66330106
101	5	12	0.325327	12	52	0.704875	64	15.41467724
102	6	16	0.433769	12	52	0.704875	68	15.16605341
103	7	20	0.542212	12	52	0.704875	72	14.91742958
104	0	0	0	13	60	0.813317	60	15.66330106
105	1	2	0.054221	13	60	0.813317	62	15.53898915
106	2	4	0.108442	13	60	0.813317	64	15.41467724
107	3	6	0.162663	13	60	0.813317	66	15.29036532
108	4	8	0.216885	13	60	0.813317	68	15.16605341
109	5	12	0.325327	13	60	0.813317	72	14.91742958

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110	6	16	0.433769	13	60	0.813317	76	14.66880576
111	7	20	0.542212	13	60	0.813317	80	14.42018193
112	0	0	0	14	68	0.92176	68	15.16605341
113	1	2	0.054221	14	68	0.92176	70	15.0417415
114	2	4	0.108442	14	68	0.92176	72	14.91742958
115	3	6	0.162663	14	68	0.92176	74	14.79311767
116	4	8	0.216885	14	68	0.92176	76	14.66880576
117	5	12	0.325327	14	68	0.92176	80	14.42018193
118	6	16	0.433769	14	68	0.92176	84	14.17155811
119	7	20	0.542212	14	68	0.92176	88	13.92293428
120	0	0	0	15	76	1.030202	76	14.66880576
121	1	2	0.054221	15	76	1.030202	78	14.54449384
122	2	4	0.108442	15	76	1.030202	80	14.42018193
123	3	6	0.162663	15	76	1.030202	82	14.29587002
124	4	8	0.216885	15	76	1.030202	84	14.17155811
125	5	12	0.325327	15	76	1.030202	88	13.92293428
126	6	16	0.433769	15	76	1.030202	92	13.67431045
127	7	20	0.542212	15	76	1.030202	96	13.42568663
128	8	24	0.650654	0	0	0	24	17.9009155
129	9	28	0.759096	0	0	0	28	17.65229167
130	10	32	0.867538	0	0	0	32	17.40366785
131	11	40	1.084423	0	0	0	40	16.9064202
132	12	48	1.301308	0	0	0	48	16.40917254
133	13	56	1.518192	0	0	0	56	15.91192489
134	14	64	1.735077	0	0	0	64	15.41467724
135	15	72	1.951962	0	0	0	72	14.91742958
136	8	24	0.650654	1	4	0.054221	28	17.65229167
137	9	28	0.759096	1	4	0.054221	32	17.40366785
138	10	32	0.867538	1	4	0.054221	36	17.15504402
139	11	40	1.084423	1	4	0.054221	44	16.65779637
140	12	48	1.301308	1	4	0.054221	52	16.16054872
141	13	56	1.518192	1	4	0.054221	60	15.66330106
142	14	64	1.735077	1	4	0.054221	68	15.16605341
143	15	72	1.951962	1	4	0.054221	76	14.66880576
144	8	24	0.650654	2	8	0.108442	32	17.40366785
145	9	28	0.759096	2	8	0.108442	36	17.15504402
146	10	32	0.867538	2	8	0.108442	40	16.9064202
147	11	40	1.084423	2	8	0.108442	48	16.40917254
148	12	48	1.301308	2	8	0.108442	56	15.91192489
149	13	56	1.518192	2	8	0.108442	64	15.41467724
150	14	64	1.735077	2	8	0.108442	72	14.91742958
151	15	72	1.951962	2	8	0.108442	80	14.42018193
152	8	24	0.650654	3	12	0.162663	36	17.15504402
153	9	28	0.759096	3	12	0.162663	40	16.9064202
154	10	32	0.867538	3	12	0.162663	44	16.65779637
155	11	40	1.084423	3	12	0.162663	52	16.16054872
156	12	48	1.301308	3	12	0.162663	60	15.66330106
157	13	56	1.518192	3	12	0.162663	68	15.16605341
158	14	64	1.735077	3	12	0.162663	76	14.66880576
159	15	72	1.951962	3	12	0.162663	84	14.17155811
160	8	24	0.650654	4	16	0.216885	40	16.9064202
161	9	28	0.759096	4	16	0.216885	44	16.65779637
162	10	32	0.867538	4	16	0.216885	48	16.40917254
163	11	40	1.084423	4	16	0.216885	56	15.91192489
164	12	48	1.301308	4	16	0.216885	64	15.41467724
165	13	56	1.518192	4	16	0.216885	72	14.91742958

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166	14	64	1.735077	4	16	0.216885	80	14.42018193
167	15	72	1.951962	4	16	0.216885	88	13.92293428
168	8	24	0.650654	5	20	0.271106	44	16.65779637
169	9	28	0.759096	5	20	0.271106	48	16.40917254
170	10	32	0.867538	5	20	0.271106	52	16.16054872
171	11	40	1.084423	5	20	0.271106	60	15.66330106
172	12	48	1.301308	5	20	0.271106	68	15.16605341
173	13	56	1.518192	5	20	0.271106	76	14.66880576
174	14	64	1.735077	5	20	0.271106	84	14.17155811
175	15	72	1.951962	5	20	0.271106	92	13.67431045
176	8	24	0.650654	6	24	0.325327	48	16.40917254
177	9	28	0.759096	6	24	0.325327	52	16.16054872
178	10	32	0.867538	6	24	0.325327	56	15.91192489
179	11	40	1.084423	6	24	0.325327	64	15.41467724
180	12	48	1.301308	6	24	0.325327	72	14.91742958
181	13	56	1.518192	6	24	0.325327	80	14.42018193
182	14	64	1.735077	6	24	0.325327	88	13.92293428
183	15	72	1.951962	6	24	0.325327	96	13.42568663
184	8	24	0.650654	7	28	0.379548	52	16.16054872
185	9	28	0.759096	7	28	0.379548	56	15.91192489
186	10	32	0.867538	7	28	0.379548	60	15.66330106
187	11	40	1.084423	7	28	0.379548	68	15.16605341
188	12	48	1.301308	7	28	0.379548	76	14.66880576
189	13	56	1.518192	7	28	0.379548	84	14.17155811
190	14	64	1.735077	7	28	0.379548	92	13.67431045
191	15	72	1.951962	7	28	0.379548	100	13.1770628
192	8	24	0.650654	8	32	0.433769	56	15.91192489
193	9	28	0.759096	8	32	0.433769	60	15.66330106
194	10	32	0.867538	8	32	0.433769	64	15.41467724
195	11	40	1.084423	8	32	0.433769	72	14.91742958
196	12	48	1.301308	8	32	0.433769	80	14.42018193
197	13	56	1.518192	8	32	0.433769	88	13.92293428
198	14	64	1.735077	8	32	0.433769	96	13.42568663
199	15	72	1.951962	8	32	0.433769	104	12.92843897
200	8	24	0.650654	9	36	0.48799	60	15.66330106
201	9	28	0.759096	9	36	0.48799	64	15.41467724
202	10	32	0.867538	9	36	0.48799	68	15.16605341
203	11	40	1.084423	9	36	0.48799	76	14.66880576
204	12	48	1.301308	9	36	0.48799	84	14.17155811
205	13	56	1.518192	9	36	0.48799	92	13.67431045
206	14	64	1.735077	9	36	0.48799	100	13.1770628
207	15	72	1.951962	9	36	0.48799	108	12.67981516
208	8	24	0.650654	10	40	0.542212	64	15.41467724
209	9	28	0.759096	10	40	0.542212	68	15.16605341
210	10	32	0.867538	10	40	0.542212	72	14.91742958
211	11	40	1.084423	10	40	0.542212	80	14.42018193
212	12	48	1.301308	10	40	0.542212	88	13.92293428
213	13	56	1.518192	10	40	0.542212	96	13.42568663
214	14	64	1.735077	10	40	0.542212	104	12.92843897
215	15	72	1.951962	10	40	0.542212	112	12.43119132
216	8	24	0.650654	11	44	0.596433	68	15.16605341
217	9	28	0.759096	11	44	0.596433	72	14.91742958
218	10	32	0.867538	11	44	0.596433	76	14.66880576
219	11	40	1.084423	11	44	0.596433	84	14.17155811
220	12	48	1.301308	11	44	0.596433	92	13.67431045
221	13	56	1.518192	11	44	0.596433	100	13.1770628

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222	14	64	1.735077	11	44	0.596433	108	12.67981515
223	15	72	1.951962	11	44	0.596433	116	12.18256749
224	8	24	0.650654	12	52	0.704875	76	14.66880576
225	9	28	0.759096	12	52	0.704875	80	14.42018193
226	10	32	0.867538	12	52	0.704875	84	14.17155811
227	11	40	1.084423	12	52	0.704875	92	13.67431045
228	12	48	1.301308	12	52	0.704875	100	13.1770628
229	13	56	1.518192	12	52	0.704875	108	12.67981515
230	14	64	1.735077	12	52	0.704875	116	12.18256749
231	15	72	1.951962	12	52	0.704875	124	11.68531984
232	8	24	0.650654	13	60	0.813317	84	14.17155811
233	9	28	0.759096	13	60	0.813317	88	13.92293428
234	10	32	0.867538	13	60	0.813317	92	13.67431045
235	11	40	1.084423	13	60	0.813317	100	13.1770628
236	12	48	1.301308	13	60	0.813317	108	12.67981515
237	13	56	1.518192	13	60	0.813317	116	12.18256749
238	14	64	1.735077	13	60	0.813317	124	11.68531984
239	15	72	1.951962	13	60	0.813317	132	11.18807219
240	8	24	0.650654	14	68	0.92176	92	13.67431045
241	9	28	0.759096	14	68	0.92176	96	13.42568663
242	10	32	0.867538	14	68	0.92176	100	13.1770628
243	11	40	1.084423	14	68	0.92176	108	12.67981515
244	12	48	1.301308	14	68	0.92176	116	12.18256749
245	13	56	1.518192	14	68	0.92176	124	11.68531984
246	14	64	1.735077	14	68	0.92176	132	11.18807219
247	15	72	1.951962	14	68	0.92176	140	10.69082454
248	8	24	0.650654	15	76	1.030202	100	13.1770628
249	9	28	0.759096	15	76	1.030202	104	12.92843897
250	10	32	0.867538	15	76	1.030202	108	12.67981515
251	11	40	1.084423	15	76	1.030202	116	12.18256749
252	12	48	1.301308	15	76	1.030202	124	11.68531984
253	13	56	1.518192	15	76	1.030202	132	11.18807219
254	14	64	1.735077	15	76	1.030202	140	10.69082454
255	15	72	1.951962	15	76	1.030202	148	10.19357688
256	0	0	0	17	92	1.247087	92	13.67431045
257	1	2	0.054221	16	84	1.138644	86	14.04724619
258	2	4	0.108442	17	92	1.247087	96	13.42568663
259	3	6	0.162663	16	84	1.138644	90	13.79862237
260	4	8	0.216885	17	92	1.247087	100	13.1770628
261	5	12	0.325327	16	84	1.138644	96	13.42568663
262	6	16	0.433769	17	92	1.247087	108	12.67981515
263	7	20	0.542212	16	84	1.138644	104	12.92843897
264	8	24	0.650654	17	92	1.247087	116	12.18256749
265	9	28	0.759096	16	84	1.138644	112	12.43119132
266	10	32	0.867538	17	92	1.247087	124	11.68531984
267	11	40	1.084423	16	84	1.138644	124	11.68531984
268	12	48	1.301308	17	92	1.247087	140	10.69082454
269	13	56	1.518192	16	84	1.138644	140	10.69082454
270	14	64	1.735077	17	92	1.247087	156	9.69632923
271	15	72	1.951962	16	84	1.138644	156	9.69632923
272	0	0	0	19	116	1.572413	116	12.18256749
273	1	2	0.054221	18	100	1.355529	102	13.05275089
274	2	4	0.108442	19	116	1.572413	120	11.93394367
275	3	6	0.162663	18	100	1.355529	106	12.80412706
276	4	8	0.216885	19	116	1.572413	124	11.68531984
277	5	12	0.325327	18	100	1.355529	112	12.43119132

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278	6	16	0.433769	19	116	1.572413	132	11.18807219
279	7	20	0.542212	18	100	1.355529	120	11.93394367
280	8	24	0.650654	19	116	1.572413	140	10.69082454
281	9	28	0.759096	18	100	1.355529	128	11.43669601
282	10	32	0.867538	19	116	1.572413	148	10.19357688
283	11	40	1.084423	18	100	1.355529	140	10.69082454
284	12	48	1.301308	19	116	1.572413	164	9.199081577
285	13	56	1.518192	18	100	1.355529	156	9.69632923
286	14	64	1.735077	19	116	1.572413	180	8.204586271
287	15	72	1.951962	18	100	1.355529	172	8.701833924
288	0	0	0	21	148	2.006183	148	10.19357688
289	1	2	0.054221	20	132	1.789298	134	11.06376028
290	2	4	0.108442	21	148	2.006183	152	9.944953056
291	3	6	0.162663	20	132	1.789298	138	10.81513645
292	4	8	0.216885	21	148	2.006183	156	9.69632923
293	5	12	0.325327	20	132	1.789298	144	10.44220071
294	6	16	0.433769	21	148	2.006183	164	9.199081577
295	7	20	0.542212	20	132	1.789298	152	9.944953056
296	8	24	0.650654	21	148	2.006183	172	8.701833924
297	9	28	0.759096	20	132	1.789298	160	9.447705403
298	10	32	0.867538	21	148	2.006183	180	8.204586271
299	11	40	1.084423	20	132	1.789298	172	8.701833924
300	12	48	1.301308	21	148	2.006183	196	7.210090966
301	13	56	1.518192	20	132	1.789298	188	7.707338619
302	14	64	1.735077	21	148	2.006183	212	6.21559566
303	15	72	1.951962	20	132	1.789298	204	6.712843313
304	0	0	0	23	180	2.439952	180	8.204586271
305	1	2	0.054221	22	164	2.223067	166	9.074769664
306	2	4	0.108442	23	180	2.439952	184	7.955962445
307	3	6	0.162663	22	164	2.223067	170	8.826145837
308	4	8	0.216885	23	180	2.439952	188	7.707338619
309	5	12	0.325327	22	164	2.223067	176	8.453210098
310	6	16	0.433769	23	180	2.439952	196	7.210090966
311	7	20	0.542212	22	164	2.223067	184	7.955962445
312	8	24	0.650654	23	180	2.439952	204	6.712843313
313	9	28	0.759096	22	164	2.223067	192	7.458714792
314	10	32	0.867538	23	180	2.439952	212	6.21559566
315	11	40	1.084423	22	164	2.223067	204	6.712843313
316	12	48	1.301308	23	180	2.439952	228	5.221100355
317	13	56	1.518192	22	164	2.223067	220	5.718348007
318	14	64	1.735077	23	180	2.439952	244	4.226605049
319	15	72	1.951962	22	164	2.223067	236	4.723862702
320	17	88	2.385731	0	0	0	88	13.92293428
321	16	80	2.168846	1	4	0.054221	84	14.17155811
322	17	88	2.385731	2	8	0.108442	96	13.42568663
323	16	80	2.168846	3	12	0.162663	92	13.67431045
324	17	88	2.385731	4	16	0.216885	104	12.92843897
325	16	80	2.168846	5	20	0.271106	100	13.1770628
326	17	88	2.385731	6	24	0.325327	112	12.43119132
327	16	80	2.168846	7	28	0.379548	108	12.67981515
328	17	88	2.385731	8	32	0.433769	120	11.93394367
329	16	80	2.168846	9	36	0.48799	116	12.18256749
330	17	88	2.385731	10	40	0.542212	128	11.43669601
331	16	80	2.168846	11	44	0.596433	124	11.68531984
332	17	88	2.385731	12	52	0.704875	140	10.69082454
333	16	80	2.168846	13	60	0.813317	140	10.69082454

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334	17	88	2.385731	14	68	0.92176	156	9.69632923
335	16	80	2.168846	15	76	1.030202	156	9.69632923
336	19	112	3.036385	0	0	0	112	12.43119132
337	18	96	2.602615	1	4	0.054221	100	13.1770628
338	19	112	3.036385	2	8	0.108442	120	11.93394367
339	18	96	2.602615	3	12	0.162663	108	12.67981515
340	19	112	3.036385	4	16	0.216885	128	11.43669601
341	18	96	2.602615	5	20	0.271106	116	12.18256749
342	19	112	3.036385	6	24	0.325327	136	10.93944836
343	18	96	2.602615	7	28	0.379548	124	11.68531984
344	19	112	3.036385	8	32	0.433769	144	10.44220071
345	18	96	2.602615	9	36	0.48799	132	11.18807219
346	19	112	3.036385	10	40	0.542212	152	9.944953056
347	18	96	2.602615	11	44	0.596433	140	10.69082454
348	19	112	3.036385	12	52	0.704875	164	9.199081577
349	18	96	2.602615	13	60	0.813317	156	9.69632923
350	19	112	3.036385	14	68	0.92176	180	8.204586271
351	18	96	2.602615	15	76	1.030202	172	8.701833924
352	21	144	3.903923	0	0	0	144	10.44220071
353	20	128	3.470154	1	4	0.054221	132	11.18807219
354	21	144	3.903923	2	8	0.108442	152	9.944953056
355	20	128	3.470154	3	12	0.162663	140	10.69082454
356	21	144	3.903923	4	16	0.216885	160	9.447705403
357	20	128	3.470154	5	20	0.271106	148	10.19357688
358	21	144	3.903923	6	24	0.325327	168	8.950457751
359	20	128	3.470154	7	28	0.379548	156	9.69632923
360	21	144	3.903923	8	32	0.433769	176	8.453210098
361	20	128	3.470154	9	36	0.48799	164	9.199081577
362	21	144	3.903923	10	40	0.542212	184	7.955962445
363	20	128	3.470154	11	44	0.596433	172	8.701833924
364	21	144	3.903923	12	52	0.704875	196	7.210090966
365	20	128	3.470154	13	60	0.813317	188	7.707338619
366	21	144	3.903923	14	68	0.92176	212	6.21559566
367	20	128	3.470154	15	76	1.030202	204	6.712843313
368	23	176	4.771462	0	0	0	176	8.453210098
369	22	160	4.337692	1	4	0.054221	164	9.199081577
370	23	176	4.771462	2	8	0.108442	184	7.955962445
371	22	160	4.337692	3	12	0.162663	172	8.701833924
372	23	176	4.771462	4	16	0.216885	192	7.458714792
373	22	160	4.337692	5	20	0.271106	180	8.204586271
374	23	176	4.771462	6	24	0.325327	200	6.961467139
375	22	160	4.337692	7	28	0.379548	188	7.707338619
376	23	176	4.771462	8	32	0.433769	208	6.464219487
377	22	160	4.337692	9	36	0.48799	196	7.210090966
378	23	176	4.771462	10	40	0.542212	216	5.966971834
379	22	160	4.337692	11	44	0.596433	204	6.712843313
380	23	176	4.771462	12	52	0.704875	228	5.221100355
381	22	160	4.337692	13	60	0.813317	220	5.718348007
382	23	176	4.771462	14	68	0.92176	244	4.226605049
383	22	160	4.337692	15	76	1.030202	236	4.723852702
384	0	0	0	25	212	2.873721	212	6.21559566
385	1	2	0.054221	24	196	2.656837	198	7.085779053
386	2	4	0.108442	25	212	2.873721	216	5.966971834
387	3	6	0.162663	24	196	2.656837	202	6.837155226
388	4	8	0.216885	25	212	2.873721	220	5.718348007
389	5	12	0.325327	24	196	2.656837	208	6.464219487

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390	6	16	0.433769	25	212	2.873721	228	5.221100355
391	7	20	0.542212	24	196	2.656837	216	5.966971834
392	8	24	0.650654	25	212	2.873721	236	4.723852702
393	9	28	0.759096	24	196	2.656837	224	5.469724181
394	10	32	0.867538	25	212	2.873721	244	4.226605049
395	11	40	1.084423	24	196	2.656837	236	4.723852702
396	12	48	1.301308	25	212	2.873721	260	3.232109743
397	13	56	1.518192	24	196	2.656837	252	3.729357396
398	14	64	1.735077	25	212	2.873721	276	2.237614438
399	15	72	1.951962	24	196	2.656837	268	2.73486209
400	0	0	0	27	244	3.30749	244	4.226605049
401	1	2	0.054221	26	228	3.090606	230	5.096788441
402	2	4	0.108442	27	244	3.30749	248	3.977981223
403	3	6	0.162663	26	228	3.090606	234	4.848164615
404	4	8	0.216885	27	244	3.30749	252	3.729357396
405	5	12	0.325327	26	228	3.090606	240	4.475228875
406	6	16	0.433769	27	244	3.30749	260	3.232109743
407	7	20	0.542212	26	228	3.090606	248	3.977981223
408	8	24	0.650654	27	244	3.30749	268	2.73486209
409	9	28	0.759096	26	228	3.090606	256	3.48073357
410	10	32	0.867538	27	244	3.30749	276	2.237614438
411	11	40	1.084423	26	228	3.090606	268	2.73486209
412	12	48	1.301308	27	244	3.30749	292	1.243119132
413	13	56	1.518192	26	228	3.090606	284	1.740366785
414	14	64	1.735077	27	244	3.30749	308	0.248623826
415	15	72	1.951962	26	228	3.090606	300	0.745871479
416	25	208	5.639	0	0	0	208	6.464219487
417	24	192	5.205231	1	4	0.054221	196	7.210090966
418	25	208	5.639	2	8	0.108442	216	5.966971834
419	24	192	5.205231	3	12	0.162663	204	6.712843313
420	25	208	5.639	4	16	0.216885	224	5.469724181
421	24	192	5.205231	5	20	0.271106	212	6.21559586
422	25	208	5.639	6	24	0.325327	232	4.972476528
423	24	192	5.205231	7	28	0.379548	220	5.718348007
424	25	208	5.639	8	32	0.433769	240	4.475228875
425	24	192	5.205231	9	36	0.48799	228	5.221100355
426	25	208	5.639	10	40	0.542212	248	3.977981223
427	24	192	5.205231	11	44	0.596433	236	4.723852702
428	25	208	5.639	12	52	0.704875	260	3.232109743
429	24	192	5.205231	13	60	0.813317	252	3.729357396
430	25	208	5.639	14	68	0.92176	276	2.237614438
431	24	192	5.205231	15	76	1.030202	268	2.73486209
432	27	240	6.506538	0	0	0	240	4.475228875
433	26	224	6.072769	1	4	0.054221	228	5.221100355
434	27	240	6.506538	2	8	0.108442	248	3.977981223
435	26	224	6.072769	3	12	0.162663	236	4.723852702
436	27	240	6.506538	4	16	0.216885	256	3.48073357
437	26	224	6.072769	5	20	0.271106	244	4.226605049
438	27	240	6.506538	6	24	0.325327	264	2.983485917
439	26	224	6.072769	7	28	0.379548	252	3.729357396
440	27	240	6.506538	8	32	0.433769	272	2.486238264
441	26	224	6.072769	9	36	0.48799	260	3.232109743
442	27	240	6.506538	10	40	0.542212	280	1.988990611
443	26	224	6.072769	11	44	0.596433	268	2.73486209
444	27	240	6.506538	12	52	0.704875	292	1.243119132
445	26	224	6.072769	13	60	0.813317	284	1.740366785

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446	27	240	6.506538	14	68	0.92176	308	0.248623826
447	26	224	6.072769	15	76	1.030202	300	0.745871479
448	0	0	0	29	276	3.74126	276	2.237614438
449	1	2	0.054221	28	280	3.524375	262	3.10779783
450	3	6	0.162663	29	276	3.74126	282	1.864678698
451	4	8	0.216885	28	260	3.524375	268	2.73486209
452	6	16	0.433769	29	276	3.74126	292	1.243119132
453	7	20	0.542212	28	260	3.524375	280	1.988990611
454	9	28	0.759096	29	276	3.74126	304	0.497247653
455	10	32	0.867538	28	260	3.524375	292	1.243119132
456	12	48	1.301308	28	260	3.524375	308	0.248623826
457	0	0	0	31	312	4.22925	312	0
458	2	4	0.108442	30	292	3.958144	296	0.994495306
459	5	12	0.325327	30	292	3.958144	304	0.497247653
460	16	80	2.168846	17	92	1.247087	172	8.701833924
461	17	88	2.385731	18	100	1.355529	188	7.707338619
462	16	80	2.168846	19	116	1.572413	196	7.210090966
463	17	88	2.385731	20	132	1.789298	220	5.718348007
464	16	80	2.168846	21	148	2.006183	228	5.221100355
465	17	88	2.385731	22	164	2.223067	252	3.729357396
466	16	80	2.168846	23	180	2.439952	260	3.232109743
467	17	88	2.385731	24	196	2.656837	284	1.740366785
468	16	80	2.168846	25	212	2.873721	292	1.243119132
469	16	80	2.168846	26	228	3.090606	308	0.248623826
470	18	96	2.602615	19	116	1.572413	212	6.21559566
471	19	112	3.036385	20	132	1.789298	244	4.226605049
472	18	96	2.602615	21	148	2.006183	244	4.226605049
473	19	112	3.036385	22	164	2.223067	276	2.237614438
474	18	96	2.602615	23	180	2.439952	276	2.237614438
475	19	112	3.036385	24	196	2.656837	308	0.248623826
476	18	96	2.602615	25	212	2.873721	308	0.248623826
477	20	128	3.470154	21	148	2.006183	276	2.237614438
478	21	144	3.903923	22	164	2.223067	308	0.248623826
479	20	128	3.470154	23	180	2.439952	308	0.248623826
480	29	272	7.374077	0	0	0	272	2.486238264
481	28	256	6.940308	1	4	0.054221	260	3.232109743
482	29	272	7.374077	3	12	0.162663	284	1.740366785
483	28	256	6.940308	4	16	0.216885	272	2.486238264
484	29	272	7.374077	6	24	0.325327	296	0.994495306
485	28	256	6.940308	7	28	0.379548	284	1.740366785
486	29	272	7.374077	9	36	0.48799	308	0.248623826
487	28	256	6.940308	10	40	0.542212	296	0.994495306
488	28	256	6.940308	12	52	0.704875	308	0.248623826
489	31	312	8.4585	0	0	0	312	0
490	30	288	7.807846	2	8	0.108442	296	0.994495306
491	30	288	7.807846	5	20	0.271106	308	0.248623826
492	17	88	2.385731	16	84	1.138644	172	8.701833924
493	18	96	2.602615	17	92	1.247087	188	7.707338619
494	19	112	3.036385	16	84	1.138644	196	7.210090966
495	20	128	3.470154	17	92	1.247087	220	5.718348007
496	21	144	3.903923	16	84	1.138644	228	5.221100355
497	22	160	4.337692	17	92	1.247087	252	3.729357396
498	23	176	4.771462	16	84	1.138644	260	3.232109743
499	24	192	5.205231	17	92	1.247087	284	1.740366785
500	25	208	5.639	16	84	1.138644	292	1.243119132
501	26	224	6.072769	16	84	1.138644	308	0.248623826

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502	19	112	3.036385	18	100	1.355529	212	6.21559566
503	20	128	3.470154	19	116	1.572413	244	4.226605049
504	21	144	3.903923	18	100	1.355529	244	4.226605049
505	22	160	4.337692	19	116	1.572413	276	2.237614438
506	23	176	4.771462	18	100	1.355529	276	2.237614438
507	24	192	5.205231	19	116	1.572413	308	0.248623826
508	25	208	5.639	18	100	1.355529	308	0.248623826
509	21	144	3.903923	20	132	1.789298	276	2.237614438
510	22	160	4.337692	21	148	2.006183	308	0.248623826
511	23	176	4.771462	20	132	1.789298	308	0.248623826